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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/687,508	10/15/2003	Peijun Jiang	2002B140/2 9030 EXAMINER	
23455 7	7590 08/23/2006			
EXXONMOBIL CHEMICAL COMPANY			LU, C CAIXIA	
5200 BAYWA P.O. BOX 214			ART UNIT PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/687,508	JIANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Caixia Lu	1713	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence add	iress
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this co D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 18 Jul     This action is FINAL. 2b) ☐ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		merits is
Disposition of Claims			
4)  Claim(s) 1-118 is/are pending in the application 4a) Of the above claim(s) 2,3 and 5-118 is/are v 5)  Claim(s) is/are allowed. 6)  Claim(s) 1 and 4 is/are rejected. 7)  Claim(s) is/are objected to. 8)  Claim(s) are subject to restriction and/or Application Papers  9)  The specification is objected to by the Examine 10)  The drawing(s) filed on is/are: a)  access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction 11)  The oath or declaration is objected to by the Examine 11)  The oath or declaration is objected to by the Examine 11)  The oath or declaration is objected to by the Examine 11)  The oath or declaration is objected to by the Examine 11)  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 11  The oath or declaration is objected to by the Examine 12  The oath or declaration is objected to by the Examine 12  The oath or declaration is objected to by the Examine 12  The oath or declaration is objected to by the Examine 12  The oath or declaration is objected to by the Examine 12  The oath or declaration is objected to by the Examine 13  The oath or declaration is objected to by the Examine 13  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objected to by the Examine 14  The oath or declaration is objec	withdrawn from consideration.  relection requirement.  r.  epted or b) objected to by the ledrawing(s) be held in abeyance. Section is required if the drawing(s) is objected to by the ledrawing(s) is objected to by the ledrawing(s).	e 37 CFR 1.85(a). ected to. See 37 CF	• •
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Applicati ity documents have been receive (PCT Rule 17.2(a)).	on No ed in this National S	Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date 1/2.6/96	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite	-152)

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#### **DETAILED ACTION**

#### Claim Rejections - 35 USC § 112

1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

2. Claims 1 and 4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. The newly added limitation of an olefin polymer has "amorphous polymer segments and semi-crystalline polymer segments" in claim 1 is new matter. Applicants indicate that the "support for this amendment can be found on page 15, paragraph 53"; however, paragraph [0053] is located on page 17 which does not provide support for the amendment. Therefore, the newly added limitation of claim 1 is new matter.

It is also noted that the working examples such as Examples demonstrate the preparation of in situ olefin polymer blend by polymerized olefin monomers in the presence of a metallocene catalyst which provides amorphous polyolefin and a metallocene catalyst which provides crystalline polyolefin. However, "a polymer" is claimed rather than a polymer blend. Clarification is requested.

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## Claim Rejections - 35 USC § 102/103

1. Claims 1 and 4 are rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Zhou et al. (US 6,774,069) and Zhou et al. (US 2002/0123538) respectively for the same rationale as set forth in the previous Office action mailed January 19, 2006.

### Response to Arguments

2. Applicant's arguments filed July 18, 2006 have been fully considered. The rejection over Karandinos et al. (US 6,747,114) is withdrawn in view of applicants' amendment and remark since Karandinos does teach or reasonably suggest a polymer blend comprising amorphous and semicrystalline polymers. However, the rejection over Zhou et al. (US 6,774,069) and Zhou et al. (US 2002/0123538) are maintained. Both Zhou teach hot-melt adhesive compositions comprising blends of an atactic polypropylene and an isotactic polypropylene. The adhesive polymers of the instant application appear to be in situ blends of amorphous and crystalline polymers according applicants' working examples because they are prepared in the presence of a metallocene catalyst which provides amorphous polyolefin and a metallocene catalyst which provides crystalline polyolefin. There it is the examiner's position if the olefin polymers of applicants' working examples exemplify the claimed "a polymer", the "a polymer" of the instant claims would be a polymer blend just like Zhou's polymer blends. Applicant indicates that the commercial Signa-Aldrich polymer propylene used in Zhou's examples is Ziegler-Natta polypropylene which is necessarily linear. This is contradictory to the commonly accepted fact that Ziegler catalyst in general provides

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olefin polymers with branches. The substantially linear olefin polymer can only be prepared in the presence of single site catalyst such as the metallocene catalyst rather than heterogeneous Ziegler catalyst.

However, applicants might overcome the rejections over Zhou by amending the claims as product-by-process claims since the in situ blend allow the amorphous and the crystalline polymer to be mixed at molecular level and, unavoidably, the macromers formed during the polymerization process would further copolymerize with the monomers in the system to provide branched polymers which provide the polymers with more profound branching.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caixia Lu whose telephone number is (571) 272-1106. The examiner can normally be reached from 9:00 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful and the matter is urgent, the examiner's supervisor, David Wu, can be reached at (571) 272-1114. The fax numbers for the organization where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-1700.

Caixia Lu, Ph. D. Primary Examiner